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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,496	09/08/2003	Paul T. Bender	02103-381001 / AABOSS16	9342
²⁶¹⁶² FISH & RICH <i>A</i>	7590 10/15/200 ARDSON PC	EXAMINER		
P.O. BOX 1022		SY, MARIANO ONG		
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			3657	
			NOTIFICATION DATE	DELIVERY MODE
			10/15/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

	Application No.	Applicant(s)
	10/657,496	BENDER, PAUL T.
Office Action Summary	Examiner	Art Unit
	MARIANO SY	3657
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.7 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tirwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>17 J</u> This action is FINAL . 2b) ☑ This Since this application is in condition for alloware closed in accordance with the practice under the practice.	s action is non-final. ince except for formal matters, pro	
Disposition of Claims		
4)	wn from consideration. -72 is/are rejected.	on.
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Bureat* * See the attached detailed Office action for a list	ts have been received. ts have been received in Application trity documents have been receive tu (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

In view of the Pre-Appeal Brief filed on July 17, 2009, PROSECUTION IS
 HEREBY REOPENED. New grounds of rejection set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Robert A. Siconolfi/

Supervisory Patent Examiner, Art Unit 3657

Claim Rejections - 35 USC § 102 / 103

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-3, 5-7, 9, 11-13, 15, 16, 18-22, 24-28, 30-32, 34, 36-41, 59-65, 67-69, 71, and 72 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Song et al. (US 7,087,342).

Song et al. disclosed, as shown in fig. 1-3, a vehicle suspension system comprising: electronic control module 4, actuator 6,8,10,12 comprising switch circuitry 14 powered by energy from movement of the actuator to passively damp the actuator, that is directly conveyed to the switch circuitry from electric terminals of the actuator wherein the electronic control module 4 which is part of the electric switch 14.

Song et al. was silent to disclose to passively damp the actuator during a failure of a power supply for providing power to the actuator.

Song et al. disclosed a passive damper that will be operational by itself even the power supply such as the battery fails. Song et al. also disclosed, as shown in fig. 3, several options for the switching circuit. Since there is power generated by the actuator going through the circuit, it would have been obvious to one of ordinary skill in the art to have utilized the power going through the circuit during a failure of a power supply to power the circuit and whereby providing power to the actuator.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4, 14, 23, 29, 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al.

Song et al. do not specifically disclose the use of solid-state electronics.

It would have been obvious to one of ordinary skill in the art to use solid-state electronics in the device of Song et al. since the use of solid-state electronics have many well known advantages such as lower power consumption, less cost to make, more reliable and more resistant to vibrations.

6. Claims 8, 33, and 70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. in view of De Puy (US 4,314,327).

Song et al. failed to disclose the supplemental circuit comprises a bipolar Royer oscillator.

Depuy teaches the use of Royer oscillator.

It would have been obvious to one of ordinary skill in the art to use Royer oscillators, which are well known, into the system of Song et al., as taught by DePuy, as merely a design choice of selecting a well known element to perform a specific function.

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7. Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. (US 7,087342) in view of Miller (US 5,296,785).

Song et al. was silent to disclose the use of the actuator during a failure and wherein the electronic control module is powered by a capacitor.

Miller teaches the use of a fail-safe damping rate for the suspension system and the electronic control module powered by a capacitor.

It would have been obvious to one of ordinary skill in the art to provide the system of Song et al. with a fail-safe damping rate for the suspension system and the electronic control module powered by a capacitor, as taught by Miller, in order to avoid failure to the suspension system of the vehicle.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariano Sy whose telephone number is 571-272-7126. The examiner can normally be reached on Mon.-Fri. from 8:30 A.M. to 2:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi, can be reached on 571-272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MS/

October 9, 2009

/Robert A. Siconolfi/

Supervisory Patent Examiner, Art Unit 3657